

WHAT IS CLAIMED IS:

Sub  
A1

1. A connector usable for connection between a first apparatus and a second apparatus by means of a connecting cable member incorporating two pieces of conductor portions each having a pair of polarities and sheathed with an insulating sheathing member whereby extracting signal of said first apparatus or feeding signal to said second apparatus, wherein said connector comprises:

at least one end of said connecting cable member conforming to a structure of said first connector incorporating two units of conductor members connected with each of said two pieces of conductor portions, wherein a second connector coupled with said first connector is provided for said first or second apparatus;

either of said first connector and said second connector provided with two pieces of connecting pins each bearing a pair of polarities and a position controlling means for matching polarities when the other connector is coupled therewith; and

the other one among said first and second connectors provided with two units of coupling holes to be coupled with said two pieces of connecting pins each bearing a pair of polarities and a position-controlling-means coupling portion to be coupled with said position-controlling means for matching polarities.

2. The connector usable for connection according to Claim 1, wherein said first connector is provided for both ends of said connecting cable member, and said second connector is provided for both of said first and second apparatuses.

Sub.  
B-1  
cont.

3. The connector usable for connection according to Claim 1, wherein said first apparatus corresponds to an electronic apparatus fitted with a plurality of audio signal output terminals, whereas said second apparatus corresponds to a speaker.

4. The connector usable for connection according to Claim 2, wherein said first apparatus corresponds to an electronic apparatus fitted with a plurality of audio signal output terminals, whereas said second apparatus corresponds to a speaker.

5. A multi-channel audio system comprising:

an electronic apparatus provided with four or more of audio signal output terminals for plural channels;

a plurality of speakers for generating acoustic output for individual channels by means of audio signal output from said audio signal output terminals for plural channels; and

a plurality of connecting cable members each incorporating two pieces of conductor members each bearing a pair of polarities and sheathed by an insulating sheathing member in order to connect said electronic apparatus to said plurality of speakers; wherein

each of said audio signal output terminals for plural channels provided for said electronic apparatus is arranged in correspondence with disposed positions of said plurality of speakers respectively being arranged in

Sub.  
A-1  
Cont.

correspondence with said plural channels.

6. The multi-channel audio system according to Claim 5, wherein an individual terminal of each of said audio signal output terminals for plural channels of said electronic apparatus is distinguished by means of different colors, whereby enabling individual channels to be discernible, and

each of said connecting cable members is also distinguished by means of different colors in correspondence with color wise distinction per channel of said audio signal output terminals.

7. The multi-channel audio system according to Claim 6, wherein each of terminals of said plurality of speakers is distinguished by means of a specific color in correspondence with distinction of individual audio signal output terminals of individual channels per color.

8. The multi-channel audio system according to Claim 7, wherein distinction of said individual terminals of individual speakers per color is implemented by way of adhering a plurality of labels each bearing a different color to locations close to said terminal portions in correspondence with color wise distinction per channel.

9. The multi-channel audio system according to Claim 6, wherein distinction of each of said audio signal output terminals is implemented by means of a plurality of sheets each bearing a different color per channel being adhered to locations close to individual audio signal

Sub  
P. 1  
cont.

output terminals.

10. The multi-channel audio system according to Claim 6, wherein distinction of said individual audio signal  
5 output terminals per color is implemented in a different-color-designating portion formed in the vicinity of a portion of the back panel of said electronic apparatus fitted with individual audio signal output terminals.

10 11. The multi-channel audio system according to Claim 6, further comprising:

at least one end of said connecting cable member having a first connector structure fitted with a pair of conductor members each being connected with said two  
15 pieces of conductor portions;

said audio signal output terminals of said electronic apparatus conforming to a second connector structure coupled with said first connector member;

either of said first connector member and said  
20 second connector member incorporating two pieces of connecting pins bearing a pair of polarities and a position controlling means for matching polarities when another one among said first connector member and said second connector member is coupled therewith;

25 said another connector member among said first and second connector members incorporating a pair of coupling holes to be coupled with said two pieces of connecting pins bearing a pair of polarities and a position-controlling-means coupling portion to be coupled with  
30 said position controlling means for matching both polarities; and

Sub  
A1  
cont.

said color for distinguishing said individual connecting cable members corresponding to the color provided for said first connector member.

5 12. The multi-channel audio system according to Claim 11, wherein said first connector member is secured to both ends of each of said connecting cable members, whereas said second connector member is secured to terminals of each of said plurality of speakers.

10 13. The multi-channel audio system according to Claim 6, wherein distinction of each of said connecting cable members per color is implemented by means of thermally contractile tubes each bearing a different color  
15 respectively being secured to each of said connecting cable members.

20 14. The multi-channel audio system according to Claim 13, wherein a plurality of thermally contractile tubes each bearing a different color are secured to a sheathing member for sheathing individual conductor members in order to visually discern both polarities of two pieces of conductor members provided for each of said connecting cable members.

25 15. The multi-channel audio system according to Claim 5, further comprising:

30 at least one end of each of said connecting cable members conforming to a first connector structure fitted with a pair of conductor members respectively being connected with said two pieces of conductor portions;

Sub. A-1  
cont.

said audio signal output terminals of said electronic apparatus conforming to a second connector structure to be coupled with said first connector member;

5 either of said first connector member and said second connector member incorporating a pair of connecting pins bearing a pair of polarities and a position controlling means for matching both polarities when being coupled with another one among said first connector member and said second connector member; and

10 said another one among said first and second conductor members incorporating a pair of coupling holes to be coupled with said two pieces of connecting pins bearing a pair of polarities and a position-controlling-means coupling portion to be coupled with said position-controlling means for matching both polarities.

16. A multi-channel audio system comprising:

20 an electronic apparatus fitted with audio signal output terminals compatible with more than four of plural channels;

a plurality of speakers for generating acoustic output for individual channels by means of audio signal output from said audio signal output terminals; and

25 a plurality of connecting cable members each incorporating a pair of conductor members each bearing a pair of polarities, wherein said connecting cable members are individually sheathed with an insulating sheathing member and used for  
30 implementing connection between said electronic apparatus and said plurality of speakers; wherein

Sub.  
A-1  
cont.

said audio signal output terminals corresponding to said plural channels provided for said electronic apparatus are individually distinguished per color in order to visually discern individual channels; and

5        said connecting cable members is provided with a specific color corresponding to each color provided for each of said audio signal output terminals available for visual discernment of individual channels.

10       17.    The multi-channel audio system according to Claim 16, wherein each of terminals of said plurality of speakers is distinguished by means of a specific color in correspondence with distinction of individual audio signal output terminals of individual channels per color.

15       18.    The multi-channel audio system according to Claim 17, wherein distinction of said individual terminals of individual speakers per color is implemented by way of adhering a plurality of labels each bearing a different  
20       color to locations close to said terminal portions in correspondence with color wise distinction per channel.

25       19.    The multi-channel audio system according to Claim 16, wherein distinction of each of said audio signal output terminals is implemented by means of a plurality of sheets each bearing a different color per channel adhered to locations close to individual audio signal output terminals.

30       20.    The multi-channel audio system according to Claim 16, wherein distinction of said individual audio signal

Sub  
Out

output terminals per color is implemented in a different-color-designating portion formed in the vicinity of a portion of the back panel of said electronic apparatus fitted with individual audio signal output terminals.

5

21. The multi-channel audio system according to Claim 16, further comprising:

10 at least one end of said connecting cable member having a first connector structure fitted with a pair of conductor members each being connected with said two pieces of conductor portions;

said audio signal output terminals of said electronic apparatus conforming to a second connector structure coupled with said first connector member;

15 either of said first connector member and said second connector member incorporating two pieces of connecting pins bearing a pair of polarities and a position controlling means for matching polarities when another one among said first connector member and said  
20 second connector member is coupled therewith;

said another connector member among said first and second connector members incorporating a pair of coupling holes to be coupled with said two pieces of connecting pins bearing a pair of polarities and a position-  
25 controlling-means coupling portion to be coupled with said position controlling means for matching both polarities; and

said color for distinguishing said individual connecting cable members corresponding to the color  
30 provided for said first connector member.



Sub  
A1  
cont.

22. The multi-channel audio system according to Claim 21, wherein said first connector member is secured to both ends of each of said connecting cable members, 5 whereas said second connector member is secured to terminals of each of said speakers.

23. The multi-channel audio system according to Claim 16, wherein distinction of each of said connecting cable 10 members per color is implemented by means of thermally contractile tubes each bearing a different color respectively being secured to each of said connecting cable members.

24. The multi-channel audio system according to Claim 23, wherein a plurality of thermally contractile tubes 15 each bearing a different color are secured to a sheathing member for sheathing individual conductor members in order to visually discern both polarities of two pieces 20 of conductor members provided for each of said connecting cable members.

25. An electronic apparatus comprising a plurality of audio signal output terminals corresponding to four or 25 more of plural channels, wherein

said plurality of audio signal output terminals provided for individual channels of said electronic apparatus are respectively disposed in correspondence with positions of a plurality of speakers respectively 30 being disposed in correspondence with said plural channels.

26. The electronic apparatus according to Claim 25,  
wherein said audio signal output terminals of said  
electronic apparatus are respectively so arranged that  
5 corresponding channels can be discerned by means of  
differentiation by color.

27. The electronic apparatus according to Claim 26,  
wherein color wise distinction of said audio signal  
10 output terminals is implemented by means of a plurality  
of sheets each bearing a different color and being  
adhered to locations close to individual audio signal  
output terminals.

28. The electronic apparatus according to Claim 26,  
wherein color wise distinction of said audio signal  
output terminals is implemented by a different-color-  
15 portion formed in the vicinity of a portion of the back-  
panel fitted with individual audio signal output  
20 terminals.

29. A connecting cable member incorporating a pair of  
conductor members bearing a pair of polarities and being  
sheathed by an insulating sheathing member, comprising:

25 both ends of said connecting cable member provided  
with a pair of conductor members respectively being  
connected with said two pieces of conductive portions,  
wherein both ends respectively conform to a connector  
structure bearing a specific color among a plurality of  
30 predetermined colors; and

said connector member incorporating a position

controlling means for matching both polarities of said two pieces of conductor members bearing a pair of polarities when said connector member is coupled with another connector member.

5

30. A connecting cable member incorporating a pair of conductor members bearing a pair of polarities and being sheathed by an insulating sheathing member, comprising:

10

one end of said connecting cable member provided with a pair of conductor members respectively being linked with said pair of conductive portions, wherein said one end conforms to a connector structure bearing a specific color among a plurality of predetermined colors; and

15

another end of said connecting cable member so arranged that said two pieces of conductive portions sheathed by said insulating sheathing member can be separated from each other, and yet, said another end is fitted with a thermally contractile tube bearing a specific color identical to that is provided for a connector member secured to said one end portion.

20

25

31. The connecting cable member according to Claim 30, wherein each of said sheathing members is provided with a thermally contractile tube bearing a specific color different from each other in order to visually discern both polarities of said two pieces of conductor members at said another end of said connecting cable member.

30

32. The multi-channel audio system according to Claim 5, wherein an individual terminal of each of said audio

Sub  
19, 2  
Concluded

signal output terminals for plural channels of said electronic apparatus is distinguished by means of differentiation in shape, whereby enabling individual channels to be discernible by look or touch, and

5 each of said connecting cable members is distinguished by means of differentiation in shape in correspondence with shape distinction per channel of said audio signal output terminals.

10

FOIA b 7 - DATED 03/06/00 BY SP8 BTJ/STW